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An engaging writing style and a strong focus on the physics make this graduate-level textbook a must-have for electromagnetism students.

' Quantum computation and information is a new, rapidly developing interdisciplinary field. Therefore, it is not easy to understand its fundamental concepts and central results without facing numerous technical details. This book provides the reader a useful and not-too-heavy guide. It offers a simple and self-contained introduction; no previous knowledge of quantum mechanics or classical computation is required. Volume I may be used as a textbook for a one-semester introductory course in quantum information and computation, both for upper-level undergraduate students and for graduate students. It contains a large number of solved exercises, which are an essential complement to the text, as they will help the student to become familiar with the subject. The book may also be useful as general education for readers who want to know the fundamental principles of quantum information and computation and who have the basic background acquired from their undergraduate course in physics, mathematics, or computer science. Contents:Introduction to Classical ComputationIntroduction to Quantum MechanicsQuantum ComputationQuantum Communication Readership: Upper-level undergraduates and graduate students in physics, mathematics and computer science. Keywords:Quantum Computation;Quantum Information;Quantum Algorithms;Quantum Communication;Quantum Cryptography;Complex Systems;Dynamical Systems;Quantum Chaos;Nanoscience;Quantum OpticsReviews:"The book by Benenti, Casati and Strini is an excellent introduction to the fascinating field of quantum computation and information. The reader is gently introduced to this field starting from the basics in computation and quantum mechanics to the more advanced topics of quantum computation of dynamical systems. The book is written in a very clear way, accessible both to undergraduate and graduate students in physics, computer science and engineering."Rosario Fazio Scuola Normale Superiore Pisa, Italy "The first volume of the present textbook aims at filling the gap between elementary introductory books and more advanced reference manuals. The choice of topics and the emphasis on concepts rather than mathematical technicalities makes it good choice for an introductory course of Quantum Information Theory for physicists or computer scientists with little background in this area. Of particular interest is the description of the links between quantum computation and quantum chaos, a research area in which the authors are leading experts, a topic rarely treated in introductory textbooks. The present volume is a welcomed addition to the existing choice of textbooks in quantum information theory and quantum computation."Professor G Massimo Palma University of Milan, Italy "This book gives a clear and exhaustive introduction to quantum computation and quantum communication. Together with the second volume it covers all the main topics in the field of quantum information theory. It is suited for a wide audience, ranging from computer scientists to physicists and engineers. It is an effective self-contained textbook for an introductory course in quantum information theory and a precious tool for researchers who wish to approach the field."Professor Chiara Macchiavello University of Pavia, Italy "The first volume of the two-volume edition is an introduction to the main concepts of quantum computation and information. The book offers a simple, clear and systematic treatment of qubits, quantum gates, various quantum algorithms and quantum communication. The chapters on classical information theory and quantum mechanics make the book easy to read. The book is recommended to undergraduate as well as graduate students in physics, mathematics and computer science. The large number of exercises is supplemented by solutions. The reader is encouraged for active work."Professor Ioannis Antoniou Aristotle University of Thessaloniki, Greece "Besides giving an excellent introduction to the field it provides a unique perspective on the blending and cross-fertilization between the methods of quantum information and quantum chaos, both areas in which the authors are leading experts."Marcos Saraceno Comision Nac. de Energia Atomica, Argentina "The authors have done a very good job, succeeding to present the main topics of this domain with remarkable concision and clarity."Bertrand Georgeot CNRS/Universite Paul Sabatier, France "This book is, on the whole, well-written and readable. The material is presented concisely, and illustrated with simple examples and exercises ... the material in the current book is much more compact and easily learned than the phonebook-sized compendium of Nielsen and Chuang. It could serve well as the text for an introductory course ... It also contains numerous exercises, which mostly seem well thought out and appropriate to the material presented."Mathematical Reviews "Reading this book one remarks from the very beginning that it is outstanding and well formulated with both mathematical and verbal respects ... This book is didactically well organized and written in a clear language. It can be best recommended to people to whom it is addressed by the authors."Zentralblatt MATH '

Atkins' Physical Chemistry: Molecular Thermodynamics and Kinetics is designed for use on the second semester of a quantum-first physical chemistry course. Based on the hugely popular Atkins' Physical Chemistry, this volume approaches molecular thermodynamics with the assumption that students will have studied quantum mechanics in their first semester. The exceptional quality of previous editions has been built upon to make this new edition of Atkins' Physical Chemistry even more closely suited to the needs of both lecturers and students. Re-organised into discrete 'topics', the text is more flexible to teach from and more readable for students. Now in its eleventh edition, the text has been enhanced with additional learning features and maths support to demonstrate the absolute centrality of mathematics to physical chemistry. Increasing the digestibility of the text in this new approach, the reader is brought to a question, then the math is used to show how it can be answered and progress made. The expanded and redistributed maths support also includes new 'Chemist's toolkits' which provide students with succinct reminders of mathematical concepts and techniques right where they need them. Checklists of key concepts at the end of each topic add to the extensive learning support provided throughout the book, to reinforce the main take-home messages in each section. The coupling of the broad coverage of the subject with a structure and use of pedagogy that is even more innovative will ensure Atkins' Physical Chemistry remains the textbook of choice for studying physical chemistry.

The Keller-Segel model for chemotaxis is a prototype of nonlocal systems describing concentration phenomena in physics and biology. While the two-dimensional theory is by now quite complete, the questions of global-in-time solvability and blowup characterization are largely open in higher dimensions. In this book, global-in-time solutions are constructed under (nearly) optimal assumptions on initial data and rigorous blowup criteria are derived.

This scarce antiquarian book is included in our special Legacy Reprint Series. In the interest of creating a more extensive selection of rare historical book reprints, we have chosen to reproduce this title even though it may possibly have occasional imperfections such as missing and blurred pages, missing text, poor pictures, markings, dark backgrounds and other reproduction issues beyond our control. Because this work is culturally important, we have made it available as a part of our commitment to protecting, preserving and promoting the world's literature.

This book is intended for the Mathematical Olympiad students who wish to prepare for the study of inequalities, a topic now of frequent use at various levels of mathematical competitions. In this volume we present both classic inequalities and the more useful inequalities for confronting and solving optimization problems. An important part of this book deals with geometric inequalities and this fact makes a big difference with respect to most of the books that deal with this topic in the mathematical olympiad. The book has been organized in four chapters which have each of them a different character. Chapter 1 is dedicated to present basic inequalities. Most of them are numerical inequalities generally lacking any geometric meaning. However, where it is possible to provide a geometric interpretation, we include it as we go along. We emphasize the importance of some of these inequalities, such as the inequality between the arithmetic mean and the geometric mean, the Cauchy-Schwarz inequality, the rearrangementinequality, the Jensen inequality, the Muirhead theorem, among others. For all these, besides giving the proof, we present several examples that show how to use them in mathematical olympiad problems. We also emphasize how the substitution strategy is used to deduce several inequalities.

Deals with the fundamental transformations of plane geometry, and introduces the reader to some important group theoretic concepts.

A detailed description of the basic physics of semiconductors. All the important equations describing the properties of these materials are derived without the help of other textbooks. The reader is assumed to have only a basic command of mathematics and some elementary semiconductor physics. The text covers a wide range of important semiconductor phenomena, from the simple to the advanced.

Describes basic principles and recent developments in approximate query processing. It focuses on four key synopses: random samples, histograms, wavelets, and sketches. It considers issues such as accuracy, space and time efficiency, optimality, practicality, range of applicability, error bounds on query answers, and incremental maintenance.

"An inspiring true story of a boy genius. "Blowing a potato field in 1920, a 14-year-old farm boy from Idaho saw in the parallel rows of overturned earth a way to make pictures fly through the air. This boy was not a magician; he was a scientific genius and just eight years later he made his brainstorm in the potato field a reality by transmitting the world s first television image. This fascinating picture-book biography of Philo Farnsworth covers his early interest in machines and electricity, leading up to how he put it all together in one of the greatest inventions of the 20th century. The author s afterword discusses the lawsuit Farnsworth waged and won against RCA when his high school science teacher testified that Philo s invention of television was years before RCA s."

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